SEDIMENTOLOGY

The Journal of the International Association of Sedimentologists $edited\ by$ J. L. Best, C. R. Fielding, I. Jarvis, P. Mozley

Volume 48 2001

bBlackwell
Science

Contents

NUMBER 1

- 1 Editorial
- 3 L. B. Clemmensen, K. Pye, A. Murray and J. Heinemeier. Sedimentology, stratigraphy and landscape evolution of a Holocene coastal dune system, Lodbjerg, NW Jutland, Denmark
- 29 A. C. Kendall. Late diagenetic calcitization of anhydrite from the Mississippian of Saskatchewan, western Canada
- 57 D. Chen, M. E. Tucker, M. Jiang and J. Zhu. Long-distance correlation between tectonic-controlled, isolated carbonate platforms by cyclostratigraphy and sequence stratigraphy in the Devonian of South China
- 79 I. Stemmerik. Sequence stratigraphy of a low productivity carbonate platform succession: the Upper Permian Wegener Halvø Formation, Karstryggen Area, East Greenland
- 99 J. C. Braga, J. M. Martin and J. L. Wood. Submarine lobes and feeder channels of redeposited, temperate carbonate and mixed siliciclastic-carbonate platform deposits (Vera Basin, Almería, southern Spain)
- 117 H. Hillgärtner, C. Dupraz and W. Hug. Microbially induced cementation of carbonate sands: are micritic meniscus cements good indicators of vadose diagenesis?
- 133 J. Alexander, J. S. Bridge, R. J. Cheel and S. F. Leclair. Bedforms and associated sedimentary structures formed under supercritical water flows over aggrading sand beds
- 153 H. Qing, D. W. J. Bosence and E. P. F. Rose. Dolomitization by penesaline sea water in Early Jurassic peritidal platform carbonates, Gibraltar, western Mediterranean
- 165 K. Counter Benison and R. H. Goldstein. Evaporites and siliciclastics of the Permian Nippewalla Group of Kansas, USA: a case for non-marine deposition in saline lakes and saline pans
- 189 B. R. Pratt. Septarian concretions: internal cracking caused by synsedimentary earthquakes

NUMBER 2

- 215 R. L. Folk and F. L. Lynch. Organic matter, putative nannobacteria, and the formation of ooids and hardgrounds
- 231 M. Seguret, A. Moussine-Pouchkine, G. Raja Gabaglia and F. Bouchette. Storm deposits and storm-generated coarse carbonate breccias on a pelagic outer-shelf (South-East Basin, France)
- 255 C. A. Houser and W. G. Nickling. The emission and vertical flux of particulate matter <10 μm from a disturbed clay-crusted surface
- 269 T. Mulder and J. Alexander. The physical character of subaqueous sedimentary density flows and their deposits
- 301 J. P. Duggan, E. W. Mountjoy and L. D. Stasiuk. Fault controlled dolomitization at Swan Hills Simonette oil field (Devonian), deep basin west-central Alberta, Canada
- 325 J. C. Kelly, J. A. Webb and R. Maas. Isotopic constraints on the genesis and age of autochthonous glaucony in the Oligo-Miocene Torquay Group, south-eastern Australia

- 339 S. K. Tandon and J. E. Andrews. Lithofacies associations and stable isotopes of palustrine and calcrete carbonates: examples from an Indian Maastrichtian regolith
- 357 E. Le Pera, J. Arribas, S. Critelli and A. Tortosa. The effects of source rocks and chemical weathering on the petrogenesis of siliciclastic sand from the Neto river (Calabria, Italy): implications for provenance studies
- 379 V. A. Melezhik, A. E. Fallick, P. V Medvedev and V. V. Makarikhin. Palaeoproterozoic magnesite: lithological and isotopic evidence for playa/sabkha environments
- 399 L. Seidler and R. Steel. Pinch-out style and position of tidally influenced strata in a regressive-transgressive wave-dominated deltaic sandbody, Twentymile Sandstone, Mesaverde Group, NW Colorado
- 416 K. O. Konhauser, V. R. Phoenix, S. H. Bottrell, D. G. Adams and I. M. Head. Microbial-silica interactions in Icelandic hot spring sinter: possible analogues for some Precambrian siliceous stromatolites
- 435 T. Nakajima and M. Satoh. The formation of large mudwaves by turbidity currents on the levees of the Toyama deep-sea channel, Japan Sea
- 465 J. D. Parsons, J. W. M. Bush and J. P. M. Syvitski. Hyperpycnal plume formation from riverine outflows with small sediment concentrations

NUMBER 3

- 479 B. J. Willis and S. Gabel. Sharp-based, tide-dominated deltas of the Sego Sandstone, Book Cliffs, Utah, USA
- 507 J. D. Hudson, M. L. Coleman, B. A. Barreiro and N. T. J. Hollingworth. Septarian concretions from the Oxford Clay (Jurassic, England, UK): involvement of original marine and multiple external pore fluids
- 533 M. W. Hounslow. The crystallographic fabric and texture of siderite in concretions: implications for siderite nucleation and growth processes
- 559 P. R. Gammon and N. P. James. Palaeogeographical influence on Late Eocene biosiliceous sponge-rich sedimentation, southern Western Australia
- 585 H. Ruszczyńska-Szenajch. Glaciodynamically upthrusted bands of englacially transported debris in the Pleistocene of central Poland
- 599 D. Uličný. Depositional systems and sequence stratigraphy of coarse-grained deltas in a shallow-marine, strike-slip setting: the Bohemian Cretaceous Basin, Czech Republic
- 629 S. H. Lee and S. K. Chough. High-resolution (2–7 kHz) acoustic and geometric characters of submarine creep deposits in the South Korea Plateau, East Sea
- 645 D. Paphitis, A. F. Velegrakis, M. B. Collins and A. Muirhead. Laboratory investigations into the threshold of movement of natural sand-sized sediments, under unidirectional, oscillatory and combined flows
- 661 E. W. Adams, W. Schlager and F. S. Anselmetti. Morphology and curvature of delta slopes in Swiss lakes: lessons for the interpretation of clinoforms in seismic data.
- 681 A. C. Kendall and A. Iannace. 'Sediment'-cement relationships in a Pleistocene speleothem from Italy: a possible analogue for 'replacement' cements and Archaeolithoporella. in ancient reefs
- 699 Book reviews

NUMBER 4

- 703 S. N. Ehrenberg and K. G. Jakobsen. Plagioclase dissolution related to biodegradation of oil in Brent Group sandstones (Middle Jurassic) of Gullfaks Field, northern North Sea
- 723 D. Soudry and Y. Nathan. Diagenetic trends of fluorine concentration in Negev phosphorites, Israel: implications for carbonate fluorapatite composition during phosphogenesis
- 745 J. M. Gregg, K. L. Shelton, A. W. Johnson, I. D. Somerville and W. R. Wright. Dolomitization of the Waulsortian Limestone (Lower Carboniferous) in the Irish Midlands
- 767 F. Bouchette, M. Séguret and A. Moussine-Pouchkine. Coarse carbonate breccias as a result of water-wave cyclic loading (uppermost Jurassic – South-East Basin, France)
- 791 A. Neal and C. L. Roberts. Internal structure of a trough blowout, determined from migrated ground-penetrating radar profiles
- 811 P. Larcombe, A. Costen and K. J. Woolfe. The hydrodynamic and sedimentary setting of nearshore coral reefs, central Great Barrier Reef shelf, Australia: Paluma Shoals, a case study
- 837 A. B. Rodriguez, M. L. Fassell and J. B. Anderson. Variations in shoreface progradation and ravinement along the Texas coast, Gulf of Mexico
- 855 J. D. Cooper and M. Keller. Palaeokarst in the Ordovician of the southern Great Basin, USA: implications for sealevel history.
- 875 A. El Albani, D. Vachard, W. Kuhnt and J. Thurow.

 The role of diagenetic carbonate concretions in the preservation of the original sedimentary record
- 887 R. G. Maliva. Silicification in the Belt Supergroup (Mesoproterozoic), Glacier National Park, Montana, USA
- 897 M. A. García del Cura. J. P. Calvo, S. Ordóñez, B. F. Jones and J. C. Cañaveras. Petrographic and geochemical evidence for the formation of primary, bacterially induced lacustrine dolomite: La Roda 'white earth' (Pliocene, central Spain)
- 917 Book review

NUMBER 5

- 919 W. Blendinger. Triassic carbonate buildup flanks in the Dolomites, northern Italy: breccias, boulder fabric and the importance of early diagenesis
- 935 K. H. Kjær and J. Krüger. The final phase of dead-ice moraine development: processes and sediment architecture, Kötlujökull, Iceland
- 953 J. L. Isbell, M. F. Miller, L. E. Babcock and S. T. Hasiotis. Ice-marginal environment and ecosystem prior to initial advance of the late Palaeozoic ice sheet in the Mount Butters area of the central Transantarctic Mountains, Antarctica.
- 971 A. D. Miall and M. Arush. Cryptic sequence boundaries in braided fluvial successions
- 987 S. D. Johnson, S. Flint, D. Hinds and H. De Ville Wickens. Anatomy, geometry and sequence stratigraphy of basin floor to slope turbidite systems, Tanqua Karoo, South Africa

- 1025 J. Hohenegger and E. Yordanova. Depth-transport functions and erosion-deposition diagrams as indicators of slope inclination and time-averaged traction forces: applications in tropical reef environments
- 1047 P. R. Hill, C. P. Lewis, S. Desmarais, V. Kauppaymuthoo and H. Rais. The Mackenzie Delta: sedimentary processes and facies of a high-latitude, fine-grained delta
- 1079 D. J. Eden and N. Eyles. Description and numerical model of Pleistocene iceberg scours and ice-keel turbated facies at Toronto, Canada
- 1103 T. M. Peryt. Gypsum facies transitions in basin-marginal evaporites: middle Miocene (Badenian) of west Ukraine
- 1121 F.-X. Devuyst and A. Lees. The initiation of Waulsortian buildups in Western Ireland
- 1149 I. Rosales, S. Quesada and S. Robles. Primary and diagenetic isotopic signals in fossils and hemipelagic carbonates: the Lower Jurassic of northern Spain
- 1171 M. P. Süss, A. Schäfer and G. Drozdzewski. Discussion: A sequence stratigraphic model for the Lower Coal Measures (Upper Carboniferous) of the Ruhr district, north-west Germany
- 1179 G. Hampson, H. Stollhofen and S. Flint. Reply

NUMBER 5

- 1187 A. Immenhauser, B. van der Kooij, A. van Vliet, W. Schlager and R. W. Scott. An ocean-facing Aptian– Albian carbonate margin, Oman
- 1209 V. Teles, J. P. Bravard, G. de Marsily and E. Perrier. Modelling of the construction of the Rhône alluvial plain since 15 000 years BP
- 1225 F. Mees. The development of a burkeite-dominated salt crust – an example of evaporite sedimentation in a saline pan with non-monomineralic deposits
- 1235 S. J. Vincent. The Sis palaeovalley: a record of proximal 'fluvial sedimentation and drainage basin development in response to Pyrenean mountain building
- 1277 B. Rubio, K. Pye, J. E. Rae and D. Rey. Sedimentological characteristics, heavy metal distribution and magnetic properties in subtidal sediments, Ria de Pontevedra, NW Spain
- 1297 P. J. Talling. On the frequency distribution of turbidite thickness
- 1331 J. Carlson and J. P. Grotzinger. Submarine fan environment inferred from turbidite thickness distributions
- 1353 M. Molgat and R. W. C. Arnott. Combined tide and wave influence on sedimentation patterns in the Upper Jurassic Swift Formation, south-eastern Alberta
- 1371 A. Pérez-López. Significance of pot and gutter casts in a Middle Triassic carbonate platform, Betic Cordillera, southern Spain
- 1389 M. J. R. Gee, D. G. Masson, A. B. Watts and N. C. Mitchell. Passage of debris flows and turbidity currents through a topographic constriction: seafloor erosion and deflection of flow pathways
- 1411 J. J. Pueyo, G. Chong and A. Jensen. Neogene evaporites in desert volcanic environments: Atacama Desert, northern Chile
- 1433 Book reviews
- 1439 Author index
- 1440 Acknowledgements